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Bottomland Hardwood Research Center

Dr. John Stanturf, project leader for the Center for Bottomland Hardwood Research in Stoneville, Mississippi

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arch on bottomland hardwood started 60 ago in Stoneville, sippi, when a Mississippi State rsity forester established some test ags. Two years later, in 1939, the A. Forest Service, Southern Experiment Station, joined with aiversity and started field studies anaging hardwood stands and ishing cottonwood plantations. Southern Hardwoods Laboratory edicated in 1962 by the late and States Senator John C. Stennis. The esearch program grew out of the to assure a continuing supply of



Center staff studies natural stands of bottomland woods.

dwoods for products, wildlife itat, recreation, flood control, and hetics. Most of the good managent and protection practices used on millions of acres of southern tomland hardwood forests can be

ced back to earch at the 1thern Hard-ods Laboratory Stoneville.
But what is going today? Lots of anges! The lowing quick 1r can only give a 1t of all the work ing done by the

dedicated group of 16 scientists and more than 30 support staff who make up the Center for Bottomland Hardwoods Research.

First, the name change that really did not change. The Center for Bottomland Hardwoods Research of the Southern Research Station is the result of declining federal budgets for forestry research in the South. Two years ago, two separate research units in

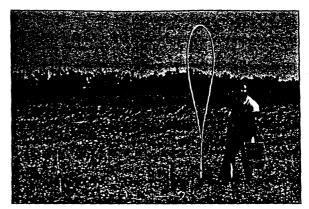
Stoneville (forest management and insect and disease research) were combined with a small seed biology unit in Starkville, the Forest Hydrology Lab

in Oxford, and one scientist from the Institute for Quantitative Studies in New Orleans into the Center. The Southern Hardwoods Lab remains the name of the facility in Stoneville, while the Center describes the entire unit, including one scientist stationed in Pineville, Louisiana.

The mission of this group, the largest single Forest Service research unit in the South, is to provide the scientific basis for sustainable

management of southern bottomland hardwood and wetland forests and associated stream ecosystems.

Most important, however, has been the added capability and expertise of the additional scientists now focusing on bottomland hardwood forests. Center



A sampling reference point for studies of small mammals in restoration sites.

scientists can look at the forest at just about any appropriate scale from the molecular to the landscape; and not just the forest, but the associated aquatic system too. The easiest way to give a flavor for this capacity is to present the research by the four general problem areas.

In February of 1997, more than 100 people representing users of the Center's research met to help the staff to plan the research program for the next five years. This is part of the formal process that each Forest Service research unit goes through to develop a "strategic plan" for

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work. The response from people at meeting, along with written coments received from others, were mpiled into eight problem areas by aff. These problems were considered Forest Service staff in the Southern search Station and the Washington fice and distilled into four problem eas.

The problem areas broadly are: regeneration of bottomland hardwoods;

stand management in bottomland hardwoods;

relations between forest management and wildlife & fisheries;

ecosystem processes and functions in forested wetlands.

Better information is needed on the egeneration of bottomland hardwood prests. This problem area encompasses ontinuing work on seed biology and atural regeneration, with a primary ocus on our valuable oak species. Corns have high moisture and fat ontent, which is why they are so

important for wildlife! But that makes them very difficult to store because they cannot be dried without damaging the embryonic oak tree. And we need a better understanding of what factors influence the production of seed, from flowering to fruiting. Other research in this area focuses on the problem we have obtaining enough large oak seedlings in the understory to insure a large component of oak in the next stand after harvesting, blow

next stand after harvesting, blowdown, or other disturbance. Finally, the scientists working in this problem area will continue to work on improving our ability to artificially regenerate bottomland hardwoods by planting seedlings or direct seeding.

Once a forest is established after harvesting a forest or on land converted from agriculture, we need to know how effectively to manage vigorous, healthy forests. Managers need information on the correct silvicultural systems to use, how to predict the way stands will



A Center staffer studies the Neotropical migrant cerulian

develop and what products and services we can expect from a given stand, and how to manage pest problems that might arise. Scientists at the Center working in this problem area will examine ways a manager might improve the stand for different objectives, including timber or wildlife habitat. They also will look for ways to detect, avoid, and treat insect or disease problems such as oak decline, insect borers, and a bacterial infection called wetwood.



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ife and fishery research is an nt part of the Center's mission. cular, staff is looking at the and ecology of selected pical migratory birds, warmwater and freshwater mussels. The re of the wildlife research is to tand existing bird communities e bottomland hardwood forests the breeding season and the ion seasons, and the effects of id ongoing forest management. outh has the highest diversity of vater fishes in the United States, e highest diversity of freshwater ls in the world. These species are

mostly confined to forested watersheds. Center scientists seek to understand better how fish communities respond to their environment, to guide land managers in ways to conserve, restore, or enhance aquatic communities. The mussel work includes developing

better techniques to monitor population trends. Without good trend information, some of these sensitive mussels

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could become listed as federally endangered species and disrupt land manage-

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Legislative Summary (continued from page 9)

ner bills of interest to forestry

zh on this list has to be HB 1169, Il to authorize a study by the ssippi Dept. Of Wildlife, Fisheries 'arks to recommend a Natural & c Waterways System. Some of type laws in other states have en to create land use prohibitions regulations. Our concern was that oill, as passed the House, made no tion of limiting study recommendato non-regulatory incentive rams for landowner participation. did it provide for any legislative sight during the study process or ortunity for input into the study by eholders such as MFA members. hout such assurances in the legisla-, MFA felt that it would be a short from our use of voluntary forestry : Management Practices (BMPs) to slation mandating regulatory BMPs streamside management zones that eed what are called for in our current

When the bill passed over to the late, it was assigned to the Wildlife I Fisheries Committee. Chairman in Posey also sits on the Forestry mmittee. Fortunately, Sen. Posey is MFA and others the opportunity talk to him about our concerns. His inmittee completely replaced the suse language, and in doing so also dressed the issues raised in the eceding paragraph. The House incurred with the Senate version and

the bill was sent to the Governor. Eighteen legislators have now been selected to oversee the study that is required by law to produce a report by Dec. 31. MFA will be working to provide our input into the study during this period.

HB 768 passed the Legislature and in doing so added new language to the already controversial adverse possession law. The new section states "For claims of adverse possession not matured as of July 1, 1998, the provisions of subsection (1) shall not apply to a landowner upon whose property a fence or driveway has been built who files with the chancery clerk within the ten years required by this section a written notice that such fence or driveway is built without the permission of the landowner. Failure to file such notice shall not create any inference that property has been adversely possessed. The notice shall be filed in the land records by the chancery clerk and shall describe the property where said fence or driveway is constructed".

Please don't call me asking what this means because I really would have a difficult time telling you.

The Legislature also passed a bill introduced by Sen. Alan Nunnelee et al that incrementally increases the amount of the deduction from the gross estate of a resident used to determine the value of the taxable estate from \$600,000 to \$1,000,000. This phase up will be completed by the year 2006.

What happens now?

I'm of the opinion that the days of considering the Legislature a 90 day issue are over. If you want your association to maintain a proactive position on legislative issues, it has become almost a year-round job. As this issue of Tree Talk is going to press, MFA has two subcommittees and the Government Affairs Committee working to develop our position recommendations on several issues prior to the July 10 MFA Board of Directors meeting. These include Natural & Scenic Waterways, whether to try again on the Reforestation Tax Credit, energy deregulation, and a possible move by MFA to update the old 1944 seed tree law (the Forest Harvesting Law). Starting July 1, several legislative committees will hold meetings to discuss issues of interest to MFA and begin preparing legislation for 1999. MFA members have too much at stake for us to sit on the sidelines. Five years ago such year-round activity by the Legislature was rare. Now it is commonplace. This is not all bad. It allows organizations like us to have input into the process before the frantic pace of the Session begins. But, it also means that MFA must prepare earlier and devote more time and resources (staff and members) to the legislative process if we are to continue to be successful in the future.

MPC-OTP (continued from page 25)

Landowners will determine the timing and extent of thinning consistent with the maintenance agreement. All income generated from thinning will be retained by the LANDOWNER.

AT THE END OF 30 YEARS DOES THE OPENLAND TREE PLANTING COMPANY OWN THE TIMBER OR HAVE RIGHT OF FIRST REFUSAL?

NO! At the end of the 30-year period, landowners have fulfilled their obligation and are no longer bound by the maintenance agreement.

WHAT IF I WANT TO SELL THE LAND OR CHANGE LAND USE BEFORE THE 30-YEAR AGREEMENT EXPIRES?

If you sell the land and the new owner agrees in writing to honor the maintenance agreement, you do not have to repay the MPC-OTP cost-shares you received.

If you decide to sell the property and the new owner will not agree in writing to honor the maintenance agreement, or you decide to change land use, you must repay the MPC-OTP cost-shares you received plus eight percent interest.

HOW DO I APPLY FOR THE MPC-OTP?

Simply fill out an application form. In addition to name, address, etc., you will also need the Section, Township, and Range (S.T.R.) where your land is located; the Tax Assessor's I.D. number for your property; and a photocopy of your land deed which shows the courthouse deed book and page reference number. MPC's Real Estate department will assist you in acquiring this information, if necessary.

After you have completed the application and enclosed the copy of your deed, send it to MPC Real Estate Department, P. O. Box 4079, Gulfport, MS 39502-4079. You will be notified by mail if your application was approved or disapproved.

If you have questions regarding the MPC-OTP program, please contact the Jeffrey Thomas, Real Estate Department, Mississippi Power Company at (601) 865-5825.

environmental values. Research continues to establish baseline values for important processes within undisturbed forests, to understand the impact of harvesting and other activities better. Another area of research is developing methods to restore forests to land that was converted to agriculture but that floods too frequently to be cropped economically. Some estimates include as much as half a million acres in this category in the Delta. So the potential to restore is great. Needed information includes ways to restore sites that are difficult to plant using standard methods, and to plant stands of mixtures of species that are as successful as establishing plantations of a single species. Other research is needed to guide efforts to restore riparian and aquatic communities.

There is a lot going on at the Center for Bottomland Hardwoods Research! If you would like to know more about the program, contact John Stanturf, Project Leader, at (601) 686-3164. Each year, Center scientists present current research results at the meeting of the Southern Hardwood Forest Research Group in Stoneville. Usually held in mid-February, the meeting is open to all. If you would like to be placed on the mailing list for the meeting, contact Penny Byler, Project Secretary, at (601) 686-3154. The Center now has a home page on the Internet: (http://www.srs.fs.fed.us/cbhr). They

(http://www.srs.fs.fed.us/cbhr). They can also be reached at P.O. Box 227, Stoneville, MS 38776.

Hardwood (continued from page 21)

ment activities. This is the only Forest Service research program devoted to the study of these organisms.

Underlying all these areas of research is the need to understand ecological processes and wetland functions better, the fourth area of research. Staff seeks to understand ecological processes better, such as how nutrients cycle between soil

and trees, how wood decomposes and serves as the substrate for beneficial microorganisms, and how flooding drives the system and makes these forests so productive. The long-term goal of this research is to develop environmentally-sound management practices that simultaneously produce commodities and maintain or improve





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